### Life Saving Appliances and Fire Control Appliances

All required Life Saving Appliances (LSA) (Life rafts, buoys with self-ignition light and life line and jackets) are installed. Fire control appliances like fire extinguishers and hoses are provided.

### Oceanographic and sampling equipment

The vessel will be used for trawl fishing and collection of oceanographic parameters from water and sediment samples from the sea. The vessel is equipped with CTD sampler, current meter, automatic weather station, instruments for chlorophyll measurements, zooplankton net and sediment samplers. The vessel has a wet laboratory for preliminary analysis and to process the samples for further analysis. A portable fish storage freezer of 400 litre capacity is installed for preserving the samples. Weather station includes space for Niskin water samples, CTD probe, van Veen grab and plankton nets.

### Nautical, Radio and fish finding equipment

Directorate General of Shipping approved radio, nautical equipment (area operation A3), VHF, echo sounder cum SONAR (Fishing), magnetic compass, Automatic Identification System (AIS) - A type, Global Positioning System (GPS), radar 90 miles and rudder angle indicators are fitted in the vessel.


For more information please contact:

Director

Central Marine Fisheries Research Institute

P.B. No. 1603, Kochi- 682018, Kerala, India

Ph: 0484-2394867, Fax:91-484-2394909

Email: director@cmfri.org.in, Web:www.cmfri.org.in



Prepared by: P.U. Zacharia, Shyam S. Salim, Grinson George and T.M. Najmudeen

Published by: Director, CMFRI

Design: Mr. Abhilash P.R

Publication Production & Co-ordination: Library & Documentation Centre

CMFRI Pamphlet No. 31/2014


# Fishing Vessel Silver Pompano

## A CMFRI-NICRA initiative



Central Marine Fisheries Research Institute

(Indian Council of Agricultural Research)

Kochi – 682 018, Kerala, India


## Background

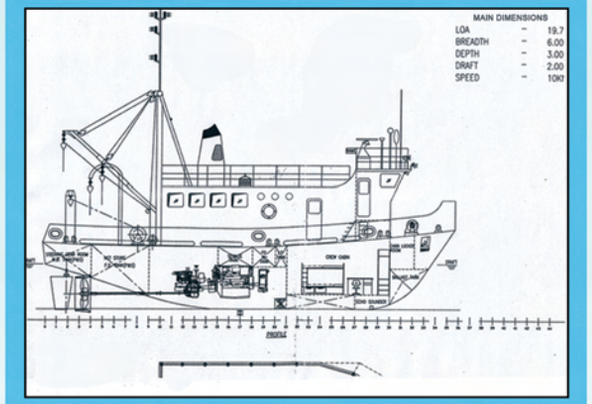
Central Marine Fisheries Research Institute (CMFRI) is the premier research institute in the country with centres spread along the Indian coast and research operated through 10 major divisions. The institute was established by Government of India on 3rd February, 1947 under the Ministry of Agriculture and later joined the ICAR family in 1967. During the course of six and half decades' journey, the Institute has emerged as a global leader in tropical marine fisheries research and management. CMFRI is mandated to monitor and assess the marine fisheries and its fluctuation in relation to environmental changes of the Indian EEZ.

## National Initiative on Climate Resilient Agriculture (NICRA)

The National Initiative on Climate Resilient Agriculture (NICRA) is the network project initiated by ICAR for studying the vulnerability, impact and adaptation options for Indian agriculture to climate change. CMFRI is the lead institute conducting research related to climate change in marine fisheries sector of India. The objectives of the NICRA project is to enhance the resilience of Indian marine fisheries and mariculture to climatic variabilities and climate change through development and application of suitable management measures and technologies to demonstrate season and site specific technologies on mariculture for adapting to current climate risks; and to enhance the capacity of fisheries scientists and other stakeholders in climate resilient marine fisheries and mariculture research and its application. Under the NICRA initiative, the fishing vessel F.V. Silver Pompano was procured at a cost of Rs.4.75 crores.

## Principal dimensions of F.V. Silver Pompano

| | |
|---|---|
| Length Over All | 19.75 m |
| Breadth (max) | 5.50 - 6.00 m |
| Depth | 2.80 m |
| Draft (max) | 2.00 m |
| Free running speed | 10 knots |
| Endurance | 10 days/100 nautical miles |
| Scientists | Two |
| Crew | Eight |
| Classification | IRS SUL "Fishing vessel" IY |
| Type of fishing | Trawling |





## Major facilities and equipment

### Navigation and power

The vessel is fitted with a 4 stroke Volvo Penta make 500 hp @1800 rpm marine engine. The main deck of the vessel contains cabin for scientists and crew, wet laboratory, weather station, galley, mess room and toilet. The hydraulically operated trawl winch consist of 1000 m long, 12 mm diameter steel wire rope on each drum with a speed of 0 to 40 m/minute which draws hydraulic power from main engine. A pair of hydraulically operated Conductivity, Temperature, and Depth (CTD) winch is provided on the port and starboard side for operation of CTD probe. Water samplers and other small equipment can be lowered through the port and starboard davits. A diesel generator is provided for operation of hydraulic equipment, navigation light, air conditioners, light and other supplies. A separate emergency generator is also provided.